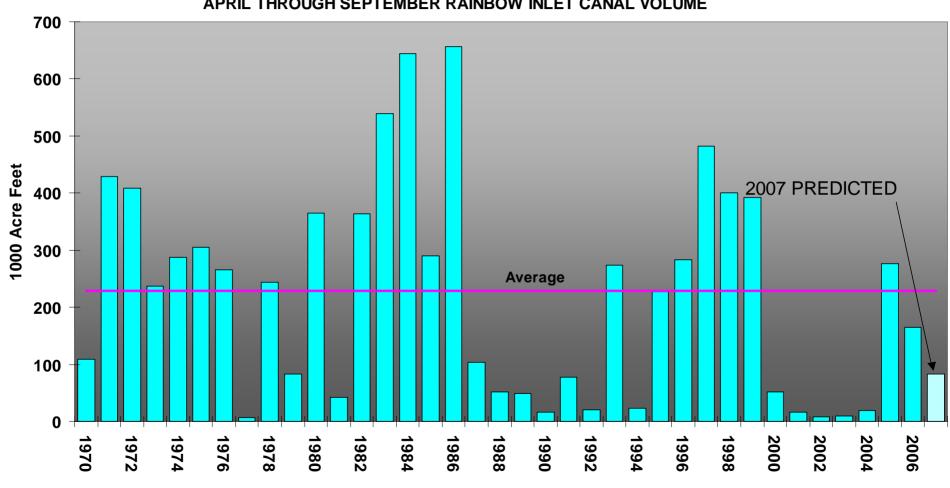
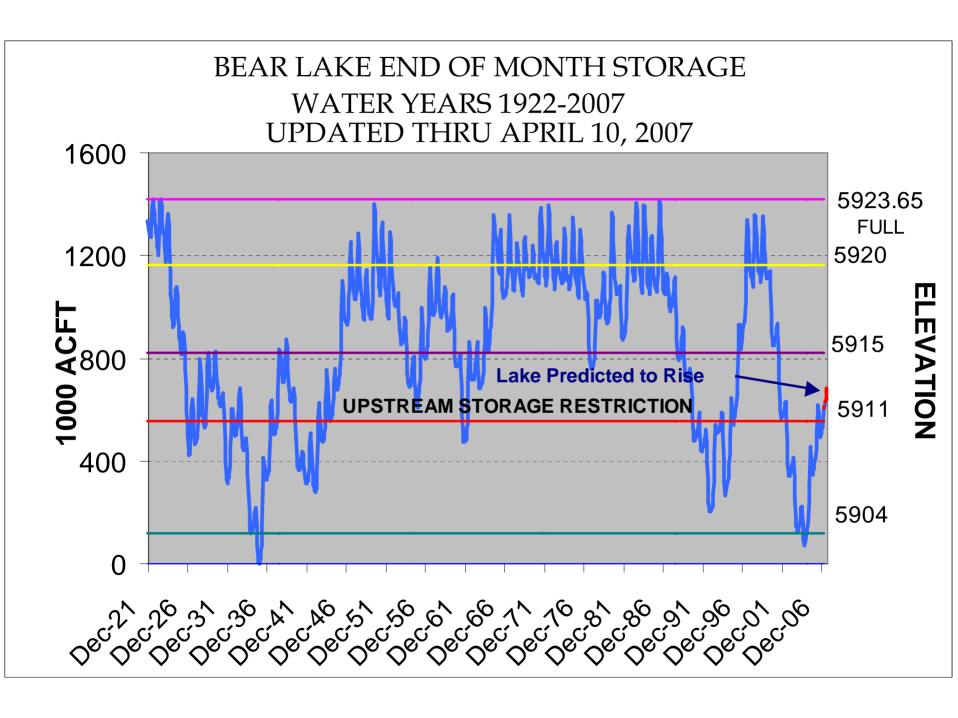
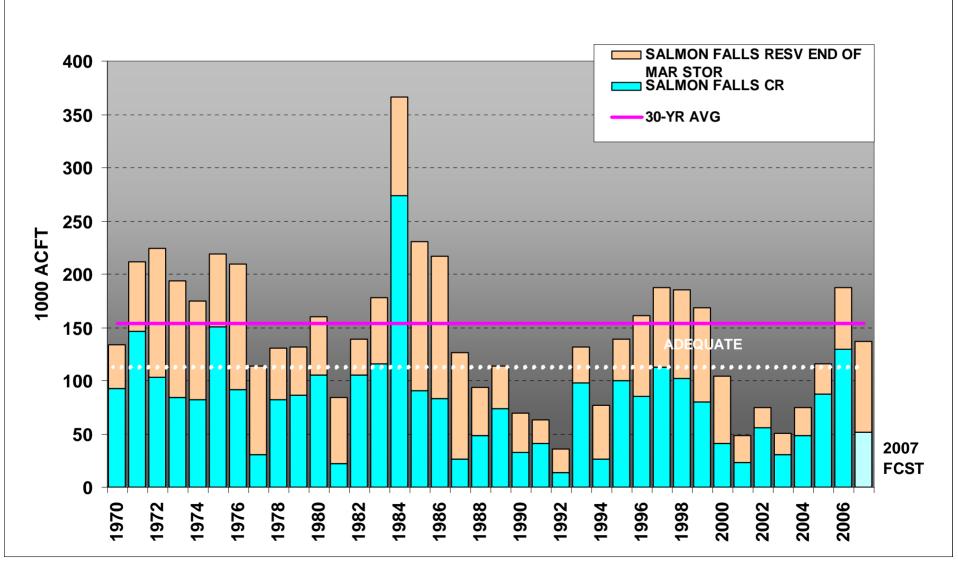


Bear Lake Inflow
APRIL THROUGH SEPTEMBER RAINBOW INLET CANAL VOLUME



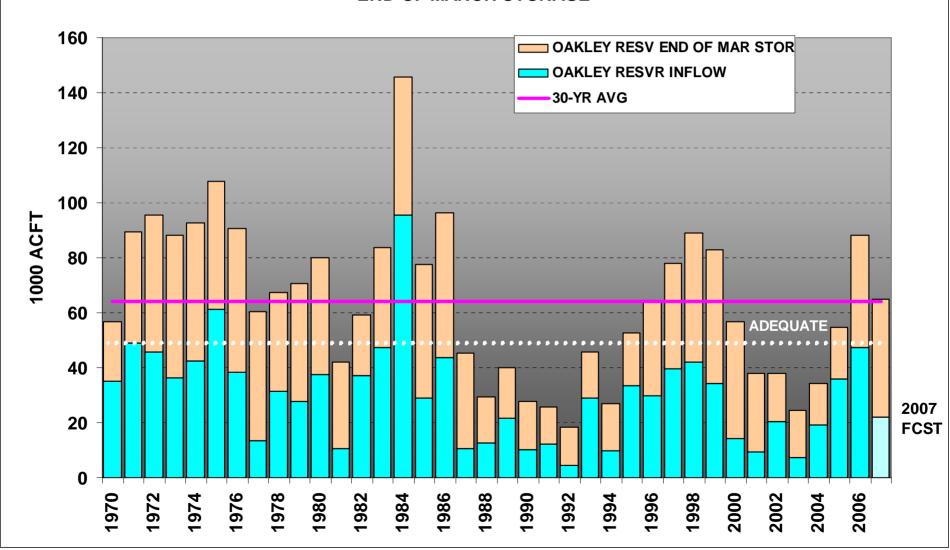


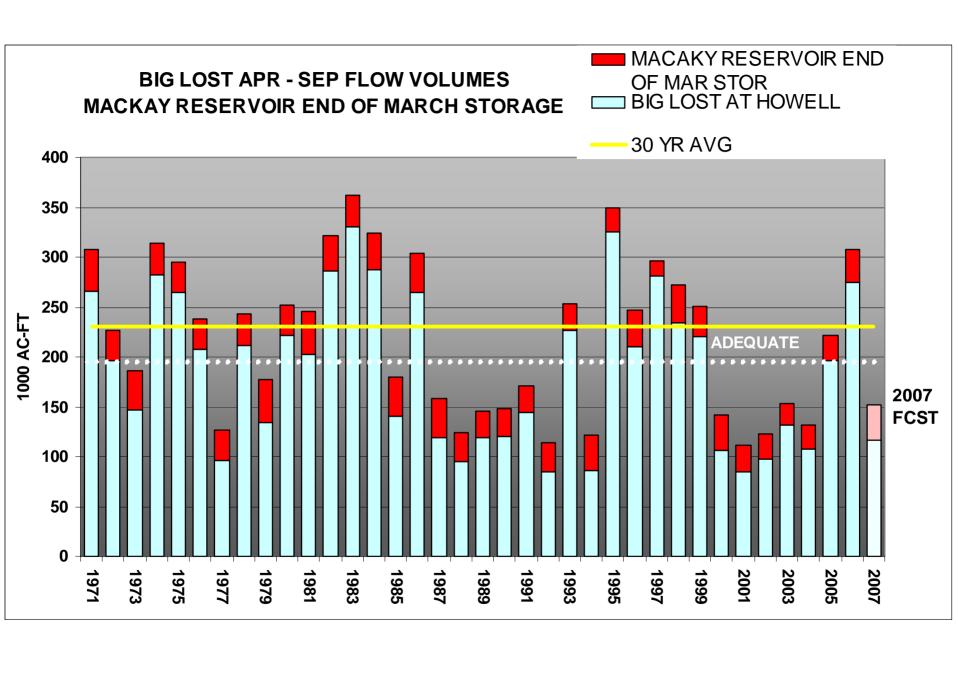
SALMON FALLS CREEK NR SAN JACINTO, NV APRIL THROUGH SEPTEMBER VOLUME + SALMON FALLS RESERVOIR

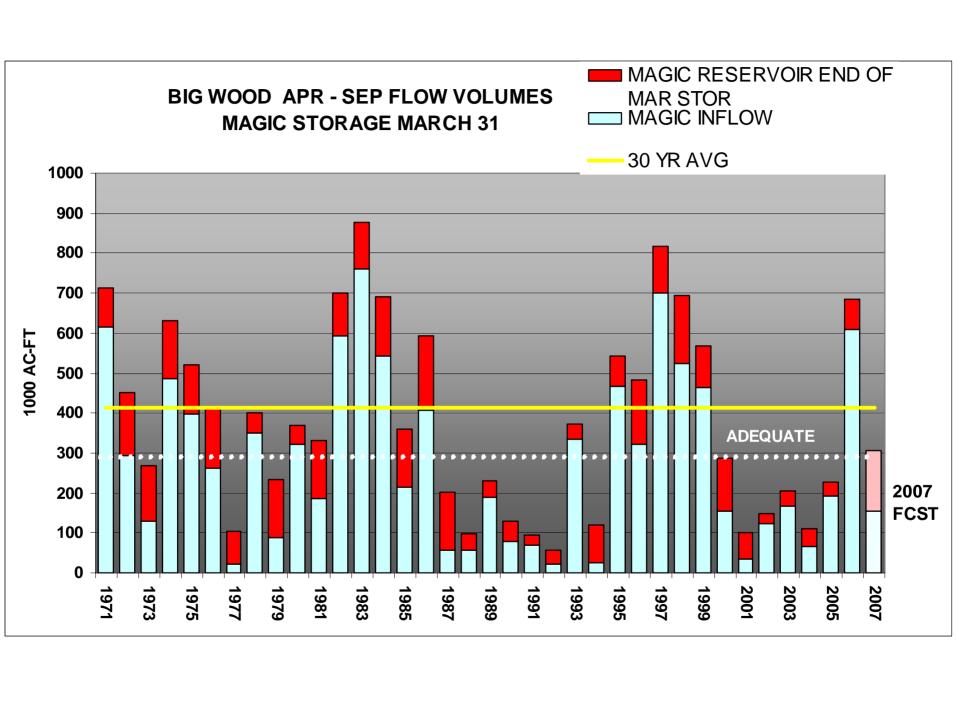


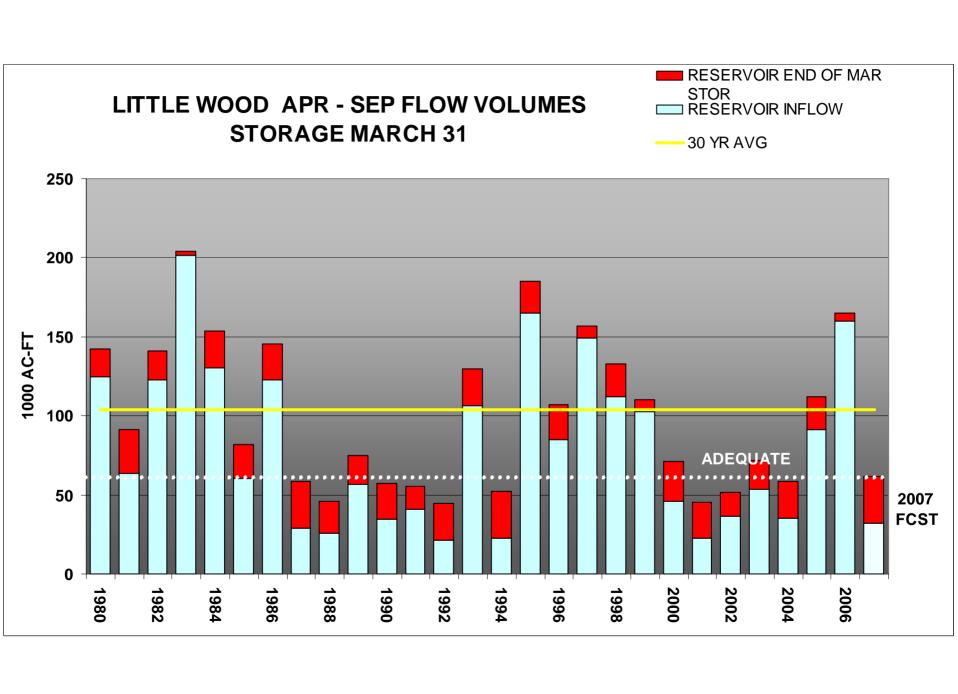
OAKLEY RESERVOIR INFLOW APRILTHROUGH SEPTEMBER VOLUME

END OF MARCH STORAGE













State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street, P.O. Box 83720, Boise, Idaho 83720-0098 Phone: (208) 287-4800 FAX: (208) 287-6700 www.idwr.idaho.gov

C L. "BUTCH" OTTER

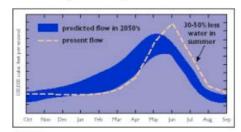
BAVID R. ToThilli, JR. Interim Birector

CLIMATE IM PACINS USCOME AFRICADED MEETING
WHITE PAPER

 What do you see as your agencies information needs. Include items such as: data collection/monitoring, analytical tools/models, or institutional/public policy issues.

Downscaled annual or seasonal river basin flow data that represents the precipitation/snowmelt/nunoff regimes that are predicted to accompany climate change. Predictive data for 10, 20, and 50 years out, for example, could be used to accertain the changes to river flows and how that would effect current irrigation practices. The changes to annual flow hydrographs are thought to be like what is shown in Figure 1 below. This change in natural flow availability coupled with the increased temperature and increased evapotranspiration will impact irrigated agriculture. Just how severe, or maybe how inconsequential these impacts will be, is not currently known. A better understanding of the impacts could be achieved once the downscaled flow data are available. Changes to reservoir operations to optimize hydropower, recreation, irrigation storage, and flood control rule curves are aspect of water resources systems and planning that climate impacts will require us to address.

Downscaled temperature data are also valuable for addressing impacts to water supply and demand. Increased temperatures will increase evaporation from reservoirs, and may increase evapotranspiration from plants. A longer growing season may lead to different cropping patterns in irrigated agriculture, such as more alp alfalfa with additional cuttings. How these temperature increases affect consumptive use curves will be valuable for planning future management needs of surface and groundwater systems in the state.



re l

April 2007
Climate Impacts Subcommittee

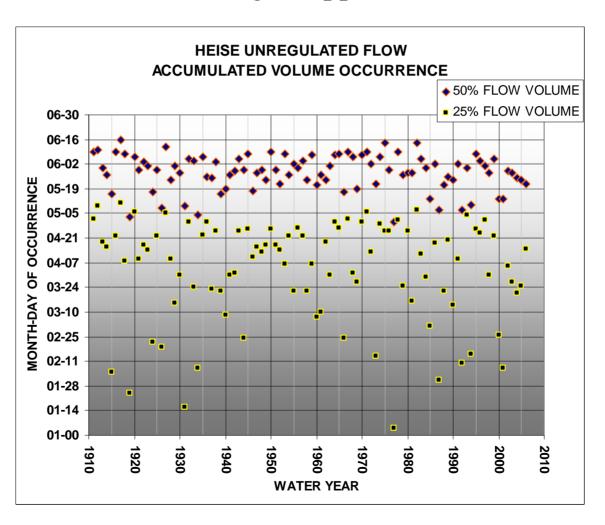
DATA NEEDS

Downscaled time series

- precipitation, snowmelt, river flows
- temperature and consumptive use

Current Programs

Runoff timing in upper Snake Basin



Collaborative Data Sites

Source for downscaled time series

- UW type model for serving data from the www
- Hosting agency?

Future Cooperative Efforts

- River basin modeling
- Crop water requirements